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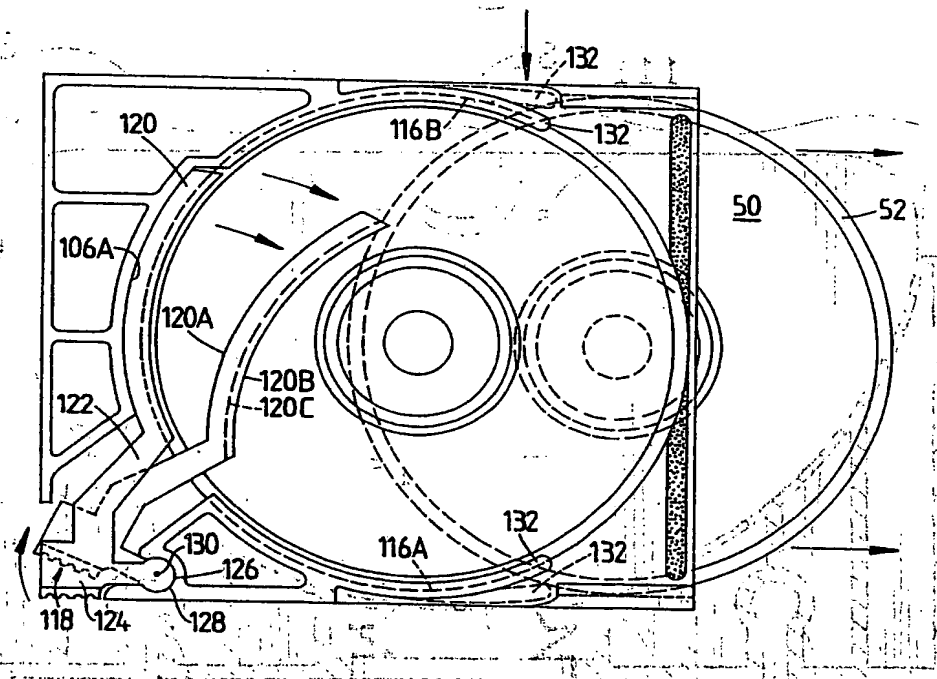
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(54) Title: A CONTAINER



(57) Abstract

A container (100) having a recess (107) arranged to receive an object such as a compact disc (50). The recess (107) has a mouth (112) opening through a side wall (108) of the container (100) and an ejector (118) for ejecting the object from the recess (107).

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A CONTAINER

The present invention relates to a container, and in particular to a container for storing compact discs.

25 Containers currently being used to store compact discs can be difficult to open. Young children with small hands find it particularly difficult to apply the necessary force to open these types of containers. The present invention seeks to provide a container which can both safely store objects such as compact discs and which can easily be opened.

30

According to a first aspect of the present invention there is provided a container having a recess arranged to receive an object, said recess having a mouth opening

through a side wall of the container, and ejector means for ejecting said object from said recess.

Preferably, said ejector means is arranged to contact a peripheral edge of the object
5 so as to eject the object out of the container.

Preferably, track means is provided in opposed side walls of the container. The track means being arranged so as to receive the peripheral edge of an object such as compact disc when it is received in the container.

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Preferably, said ejector means is arranged to slide said object contained within the recess, towards the side wall to a position at which at least a portion of the object extends out of the recess.

15 Preferably, the ejector means comprises an arm member pivotally mounted in said container. The arm member being movable between a first position in which a portion of the arm member is positioned substantially adjacent a portion of the container, and a second position in which the portion of the arm member is displaced from said portion of the container.

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Preferably, the ejector means also comprises a trigger means which extends through an aperture in the container. The trigger means being movable between a first and a second position, said movement of the trigger means from the first to the second position resulting in movement of the arm member from the first position to the
25 second position.

Preferably, the container is made of a plastics material and is of a rectangular configuration.

30 Preferably, blocking means is provided at the mouth of the recess to prevent dirt and other unwanted matter entering the recess. The blocking means may comprise a set of fine bristles, a strip of material such as felt or a flap hingedly mounted to the

mouth of the aperture.

Preferably, means is provided to retain the object in the container when the arm member is in the first position.

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An embodiment of the invention will now be described by way of example only with reference to the accompanying drawings in which:-

10 Figure 1 is a perspective view of a container according to a first embodiment of the invention showing a compact disc stored within the container;

Figure 2 is an assembly view of the container shown in Figure 1;

15 Figure 3 is a top view of the container shown in Figure 1 illustrating a compact disc being ejected from the container;

Figure 4 is an end view of the container shown in Figure 3.

20 Figure 5 is an assembly view of a container according to a second embodiment of the invention; and

Figure 6 is a top view of the container shown in Figure 5 illustrating a compact disc being ejected from the container.

25 Figure 1 illustrates a square container 10 which is made of a clear plastics material. The container 10 has top and bottom walls 12, 14 and first and second pairs of opposed side walls 16, 18. The container 10 is formed with a recess 20 having a mouth 22 which opens through side wall 18a. Recess 20 is arranged to receive an object such as a compact disc 50.

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A track 30 extends along each of the side walls 16 of the container 10. The longitudinal mouth of each track 30 opens into the recess 20. Each track 30 is

arranged to receive a portion of the peripheral edge 52 of the compact disc 50 when it is received in the container 10. In this way, the area of the side faces of the compact disc 50 which must be preserved in order to ensure sound quality is prevented from coming into contact with either of the top and bottom walls 12, 14 of the container 10. The engagement of the peripheral edge 52 of the compact disc 50 in the tracks 30 is best illustrated in Figure 4.

An ejector 40 comprising an arm member 42, a web 43 and a trigger 44 is mounted in the container 10. Web 43 joins the arm member 42 to the trigger 44. Arm member 42 comprises a substantially C-shaped rib which is shaped along one face 42a to be complementary with the inside wall surface 18c of the side wall 18b, and on the other opposite face 42b includes a track 42c which is shaped so as to be complementary with the periphery of the compact disc 50. The ejector 40 is fitted to the container 10 such that the trigger 44 extends through an aperture 45 in one of the side walls 16 of the container 10. Aperture 45 extends diagonally across one of the corners of the container 10. Trigger 44 is preferably sized and shaped so that it is substantially contained within an area bounded by imaginary extensions of the side walls 16, 18. The ejector 40 is preferably made of a moulded plastics material.

The ejector 40 is pivotally mounted to the container 10 by the interconnection between the innermost end 44a of the trigger 44 and a complementary shaped portion 15 of the side wall 16 (Figure 4). This interconnection enables the ejector 40 to be moveable between a first position, in which the arm member 42 is positioned substantially adjacent to the inside wall surface 18c of side wall 18b, and a second position in which the arm member 42 is displaced from said inside wall surface 18c of the side wall 18b of the container 10. The second position of the arm member 42 is illustrated in Figure 3. Ejector 40 pivots about pivot point 60 as it moves from the first position to the second position.

Movement of the arm member 42 from the first position to the second position is facilitated by pushing the outermost end 44b of the trigger 44 towards the side wall

16 of the container 10. Such movement of the trigger 44 causes the arm member 42 to move from the first position, as illustrated in Figure 1. to the second position, as illustrated in Figure 3. As the arm member 42 moves from the first position to the second position the compact disc 50 is pushed along the tracks 30 in each of the side walls 16 of the container 10. When the arm member 42 is in the second position, as illustrated in Figure 3, the compact disc 50 is positioned so that a substantial portion of the compact disc 50 extends through the mouth 22 of the recess 20 of the container 10.

10 A flexible resilient tongue 70 is formed in one of the side walls 16 of the container 10. The free end 72 of the tongue 70 is arranged to protrude through the bottom wall 30a of the track 30. Thus, when the compact disc 50 is held in the container 10 and the arm member 42 is in the first position, the free end 72 of the tongue 70 engages against the periphery of the compact disc 50. This engagement between the free end 72 of the tongue 70 and the disc 50 is sufficient to prevent the disc 50 from inadvertently falling out of the container 10.

When the arm member 42 is moved, by actuation of the trigger 42, from the first position to the second position, the periphery of the compact disc 50 is forced against the free end 72 of the tongue 70. The tongue 70 is thereby caused to deflect outwardly away from the bottom wall 30a of the track 30 so as to enable the disc 50 to pass by it and travel along the track 30 towards the mouth 22 of the container 10.

25 A second flexible resilient tongue 80 is formed in one of the side walls 16 substantially adjacent side wall 18a. Second tongue 80 is smaller than tongue 70 but is preferably of similar construction. The second tongue 80 is arranged to prevent the compact disc 50 from exiting the container too quickly when the trigger 44 is activated with great force.

30 To prevent dirt and dust from entering the recess 30 of the container 10 the mouth 22 of the recess 20 may be fitted with a set of fine soft bristles or a strip of felt type material to prevent entry of dust etc. into the recess 20. Alternatively, a flap may

be hingedly mounted across the mouth 22 of the recess 20 to prevent entrance of dust etc. The flap would be arranged to open upon contact of the compact disc 50 on the inside face of the flap when the arm member 42 is moved from the first to the second position.

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The container 10 would preferably comprise two moulded parts. The lower part 95 comprising side walls 16, 18, bottom wall 14 and tongues 70, 80 and the upper part 90 comprising the top wall 12. As shown in Figure 2, the container 10 and ejector 40 may be assembled by fitting the ejector 40 into the lower part 95 so that the innermost end 44a of the trigger 44 is engaged with the complementary shaped portion 15 of the side wall 16, and then attaching the upper part 90 to the lower part 100. The upper part 90 may be attached to the lower part 95 by gluing, ultrasonic welding etc.

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15 The embodiment described is particularly advantageous because the compact disc 50 can be quickly and easily removed from the container. The compact disc 50 is replaced into the container by inserting the compact disc 50 such that the peripheral edge 52 of the disc 50 is engaged in the tracks 30. A gentle force is then applied to the compact disc 50 to push the disc 50 inwardly along the tracks 30 and past the first and second tongues 70, 80. The first and second tongues 70, 80 are arranged so that they deflect outwardly away from the track 30 when the edge of the compact disc 50 is forced against them. As the disc 50 is pushed into the container 10 along tracks 30 the disc 50 contacts the arm member 42 to move it from the second position to the first position. The container 10 is easily manufactured and assembled.

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Figures 5 and 6 depict a container 100 in accordance with a second embodiment of the invention. The container 100 is similar to the container shown in Figures 1 to 4 but, as best shown in Figure 5, comprises a three piece construction rather than a two piece construction.

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The container 100 shown in Figures 5 and 6 comprises a top cover 102, a bottom

cover 104 and a core frame 106 disposed therebetween. A space 107 for receiving a compact disc is defined by the top and bottom covers 102, 104 and the core frame 106. The top and bottom covers 102, 104 are each made from a rectangular sheet of a plastics material which are bonded to the intermediate core frame 106. The
5 core frame 106 has first and second pairs of opposed side walls 108, 110. In one of the side walls 108 there is an opening 112 arranged to enable a compact disc 50 to pass therethrough so that it can be contained in the space 107. A track section 114A, 114B extends from the opening 112 and along a portion of each of the side walls 110 of the container 100.

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As best shown in Figure 6, the core frame 106 includes two curved track sections 116A, 116B formed substantially adjacent the side walls 110. The straight track sections 114A, 114B and the curved track sections 116A, 116B are all arranged so as to receive a portion of peripheral edge 52 of the compact disc 50 when it is
15 received in the container 100.

An ejector 118 comprising an arm member 120, a web member 122 and a trigger member 124 is pivotally mounted in the container 100. The ejector 118 may be fitted to the container 100 either during assembly of the top and bottom covers 102,
20 104 and the core frame 106 or once the container 100 has been completely assembled. The ejector 118 is preferably made of polypropylene and is thinner than the thickness of the core frame 106. This ensures that the ejector 118 can move back and forth as shown by dotted lines in Figure 6 without the ejector 118 coming into contact with either the top or bottom covers 102, 104. The arm member 120 of
25 the ejector comprises a substantially C-shaped rib which is shaped along one face 120A so as to be complementary with the inside surface 106A of the core frame 106. Along the other face 120B the arm member 120 has a track 120C which is shaped to receive the periphery 52 of a compact disc 50.

30 The ejector 118 is substantially similar to the ejector 40 described in relation to the first embodiment of the invention. The only substantial difference is the manner of interconnection of the ejector 118 to the core frame 106. The ejector 118 is pivotally

connected to the core frame 106 by means of a circular member 126 which is received in a socket 128 in the core frame 106. The interconnection of the ejector 118 to the container 100 is such that the ejector 118 pivots about pivot point 130 when the trigger 124 is pushed inwardly.

5

A compact disc 50 is inserted into the container 100 by passing the disc 50 through the opening 112 in the side wall 108. As best shown in Figure 6, as the compact disc 50 is inserted the peripheral edges 52 of the disc 50 enter the straight track sections 114A, 114B on the side walls 106. As the compact disc is pushed further into the container 100, portions of the peripheral edge 52 of the disc 50 engage with each of the first ends 132 of the curved track sections 116A, 116B. The curved track sections 116A, 116B are constructed in such a manner that the first ends 132 can flex outwardly towards their adjacent side walls 106. This movement of the first ends 132 of the curved track sections 116A, 116B is depicted by the dotted outline in Figure 6. The first ends 132 of the curved track sections 116A, 116B are preferably arranged such that they cause the disc 50 to be pulled or sucked into the container 100 until a portion of the peripheral edge 52 of the disc 50 enters the track 120C in the arm member 120. At this point the first ends 132 of the curved track sections 116A, 116B flex inwardly to their original positions.

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To eject the compact disc 50 from the container 100, the trigger 124 of the ejector 118 is pushed inwardly which causes the arm member 120 to push the compact disc 50 out of the container. The pressure applied to the disc 50 by the arm member 120 is sufficient to cause the first ends 132 of the curved track sections 116A, 116B to move outwardly towards the side walls 106. This movement preferably causes the peripheral edge 52 of the disc 50 to move along the straight track sections 114A, 114B and out of the container 100.

The straight track sections 114A, 114B, the curved track sections 116A, 116B and the track 120C in the arm member 120 are arranged such that when a compact disc 50 moves in or out of the container 100 and when the disc 50 is stored in the container the screen printed faces of the disc do not come into contact with the top or bottom

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covers 102, 104.

5 The free end portions 132 of the curved track sections 116A, 116B ensure that a compact disc 50 contained within the container 100 is not inadvertently released from the container. The free end portions 132 act in a similar manner to the tongue 70 described in relation to the first embodiment of the invention.

10 Positioned across the width of the inner side of the top and bottom covers 102, 104 and adjacent the opening 112 is a thin strip of soft material which is arranged to clean the top and bottom faces of the disc 50 as it is inserted into and out of the container 100. The opening 112 may be provided with a flap or bristles to prevent dust or dirt from entering the space 107.

15 The embodiments have been described by way of example only and modifications are possible within the scope of the invention.

CLAIMS:

1. A container having a recess arranged to receive an object, said recess having a mouth opening through a side wall of the container, and ejector means for ejecting
5 said object from said recess.
2. A container according to claim 1 wherein said ejector means is arranged to contact a peripheral edge of the object so as to eject the object out of the container.
- 10 3. A container according to claim 1 or claim 2 wherein the track means is provided in opposed side walls of the container.
4. A container according to claim 3 wherein the track means is arranged so as to receive a peripheral edge of an object, such as compact disc, when it is received
15 in the container.
5. A container according to any one of the preceding claims wherein the ejector means is arranged to slide said object contained within the recess, towards the side wall to a position at which at least a portion of the object extends out of the recess.
20
6. A container according to any one of the preceding claims wherein the ejector means comprises an arm member pivotally mounted to said container.
7. A container according to claim 6 wherein the arm member is movable
25 between a first position in which a portion of the arm member is positioned substantially adjacent a portion of the container, and a second position in which the portion of the arm member is displaced from said portion of the container.
8. A container according to claim 6 or claim 7 wherein the ejector means
30 comprises a trigger means which extends through an aperture in the container.
9. A container according to claim 8 when dependent on claim 7 wherein the

trigger means is movable between a first and a second position, said movement of the trigger means from the first to the second position resulting in movement of the arm member from the first position to the second position.

5 10. A container according to any one of claims 7 to 9 comprising means to retain the object in the container when the arm member is in the first position.

11. A container according to claim 10 wherein the retaining means comprise deflectable members which are movable to enable release of the object from the
10 container.

12. A container according to claim 10 wherein the retaining means is shaped to suck the object in the container when the object is substantially engaged with the retaining means.

15 13. A container according to any one of the preceding claims comprising blocking means adjacent at the opening of the recess to prevent dirt and other unwanted matter entering the recess.

20 14. A container according to any one of the preceding claims further comprising means adjacent the opening to wipe an upper and/or lower face of the object as it enters and exits the container.

25 15. A container according to any one of the preceding claims made from a plastics material.

AMENDED CLAIMS

[received by the International Bureau on 4 August 1993 (04.08.93);
original claims 1-15 replaced by amended claims 1-15 (2 pages)]

1. A hand held disc container comprising a flat generally rectangular box defining a disc-containing cavity adapted snugly to receive opposed edge portions of the disc, a slot in one edge of the box communicating with the cavity and through which the disc can be inserted in and removed from the box in edgewise fashion, and manually operable disc ejector means in the box and adapted to engage an edge portion of the disc to displace the disc at least partly from the cavity.
2. A hand held disc container according to claim 1, comprising an opposed pair of track means provided at opposite sides of the cavity to receive and guide said opposed edge portions of the disc and to limit axial displacement of the disc in the cavity to prevent contact between a face of the disc and a wall of the cavity.
3. A hand held disc container according to claim 1 or claim 2, comprising means in the cavity for engaging and retaining the disc against inadvertent displacement.
4. A hand held disc container according to claim 3 when dependent on claim 2, wherein the retaining means comprises a projection disposed in the track means.
5. A hand held disc container according to claim 3 or claim 4, wherein the retaining means comprises resilient deflectable means projecting into the cavity to engage an edge portion of the disc.
6. A hand held disc container according to claim 5, wherein the retaining means comprise an opposed pair of resilient deflectable means projecting into the cavity to engage opposed edge portions of the disc.
7. A hand held disc container according to any preceding claim, wherein the manually operable disc ejector comprises a portion movably mounted in the box, a portion extending into the cavity for engaging the disc and a portion extending externally of the box and adapted for manual actuation by an operator.
8. A hand held disc container according to claim 7, wherein the ejector is

pivotably mounted in the box.

9. A hand held disc container according to claim 7 or claim 8, wherein the portion of the ejector for engaging the disc comprises an arm member having a curved portion which is shaped to be complementary with an edge portion of the disc.
10. A hand held disc container according to claim 9, wherein the arm member has a longitudinally extending groove to receive an edge portion of the disc.
11. A hand held disc container according to claim 10, wherein the groove in the arm member is tapered in cross-section so as to be narrower at its base than at its top.
12. A hand held disc container according to any preceding claim, comprising blocking means adjacent to the slot to prevent foreign matter from entering the cavity.
13. A hand held disc container according to any preceding claim, comprising means adjacent to the slot to wipe a face of the disc as it enters and exits the cavity.
14. A hand held disc container according to any preceding claim, comprising means for arresting a disc ejected from the cavity.
15. A hand held disc container according to claim 14, wherein the arresting means is disposed adjacent to the slot.

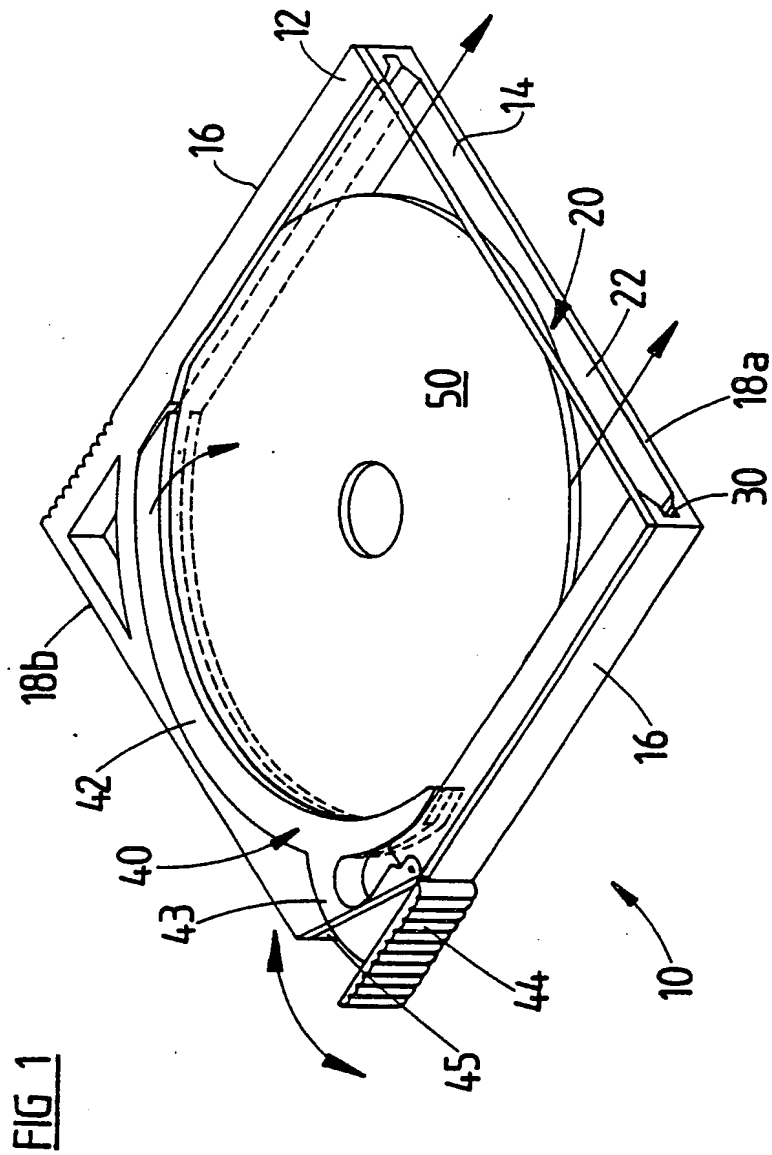
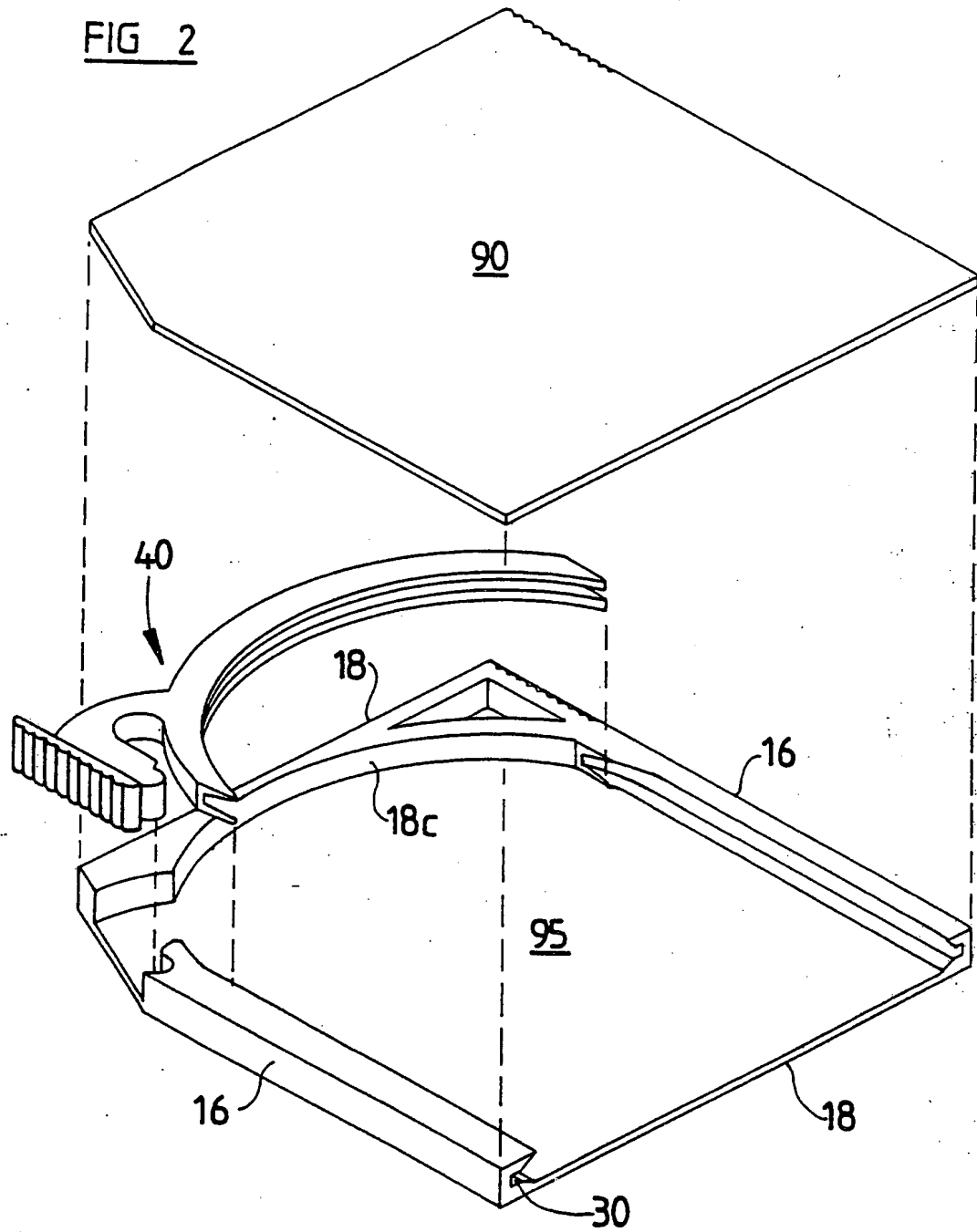


FIG 1

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FIG 2



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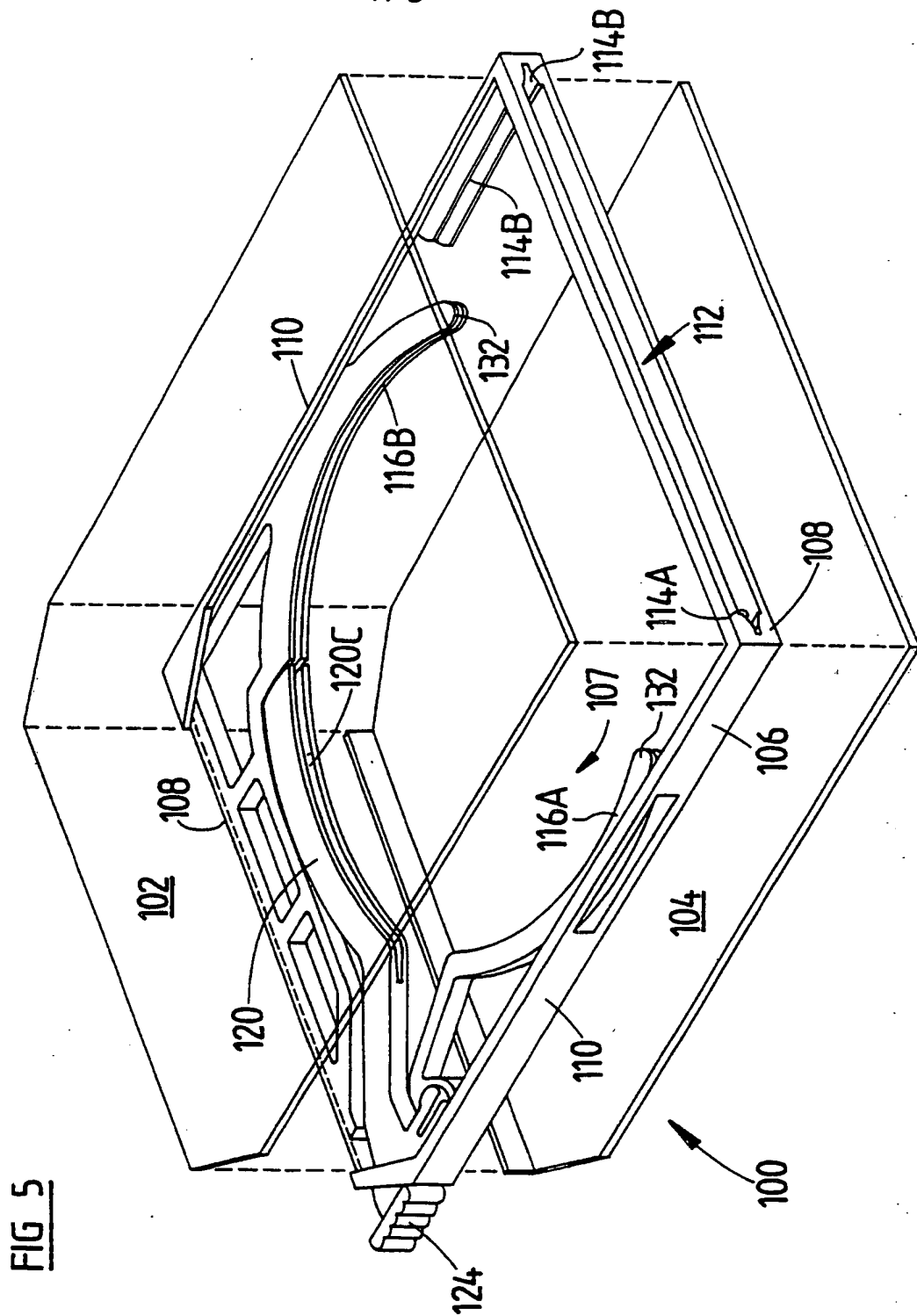
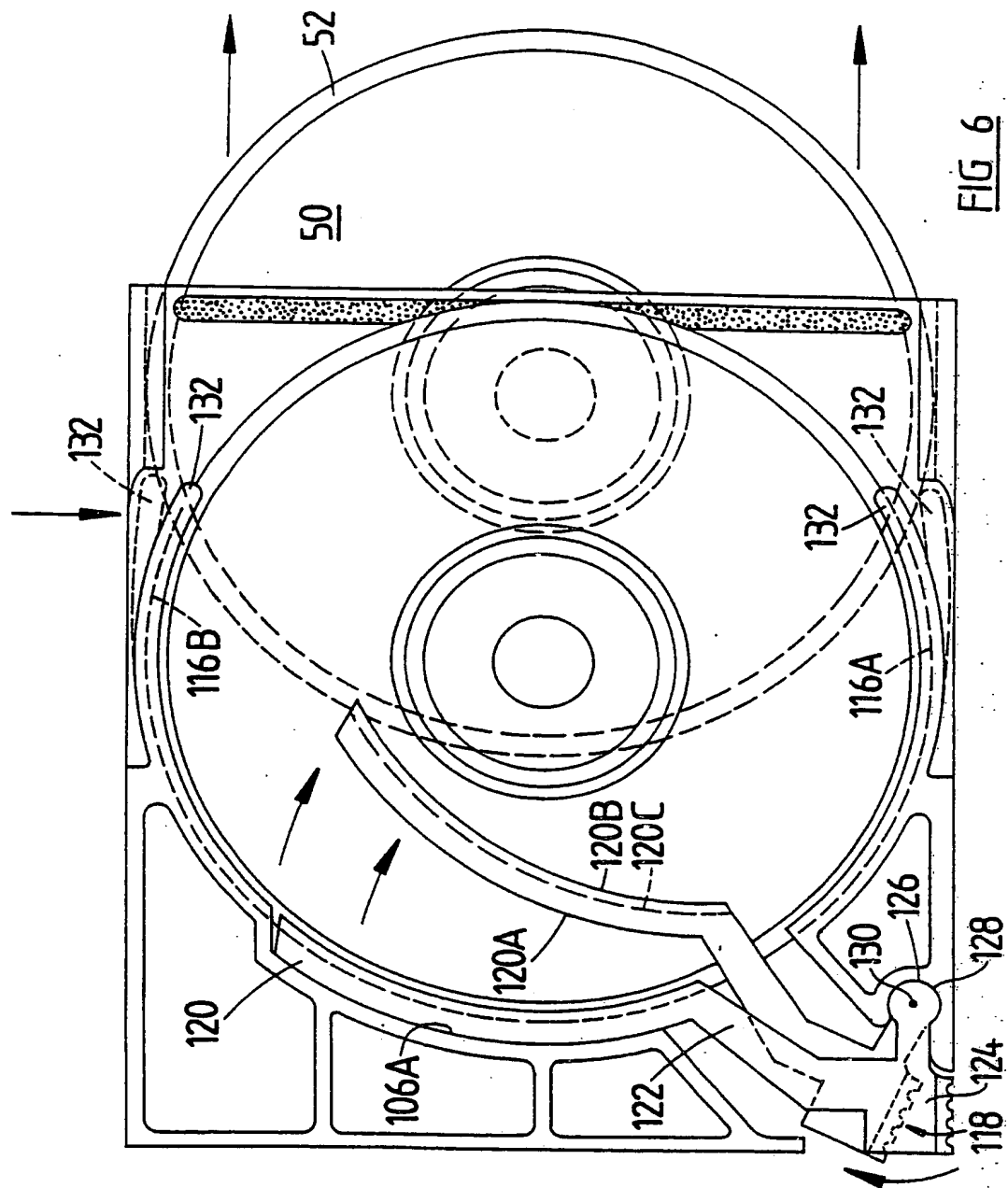


FIG 5

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. ⁵ G11B 23/03																						
According to International Patent Classification (IPC) or to both national classification and IPC																						
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Minimum documentation searched (classification system followed by classification symbols) IPC G11B 23/03, 23/033																						
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C. DOCUMENTS CONSIDERED TO BE RELEVANT																						
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to Claim No.																				
X Y	US,A, 3969007 (LOWRY) 13 July 1976 (13.07.76) col 2 line 27 - col 4 line 29, Fig 1,4,5 col 4 line 14 - line 20	1-3,5-11,15																				
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Date of the actual completion of the international search 24 May 1993 (24.05.93)		Date of mailing of the international search report 26 MAY 1993 (26.05.93)																				
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU93/00053

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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INTERNATIONAL SEARCH REPORT

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		EP	141113	EP	141937	ES	535474
		HK	801/88	JP	59152575	US	4640415
		US	4647117	US	4694957	US	4712678
		US	4811995	ZA	8406667	ZA	8406668
AU	31992/84	AU	32447/84	AU	577306	BR	8404291
		CA	1240642	DE	3370395	DE	3477435
		DE	3480306	EP	119320	EP	139161
		EP	141113	EP	141937	ES	8505488
		HK	801/88	JP	59152575	JP	4014433
		US	4640415	US	4647117	US	4694957
		US	4712678	ES	535474	US	4811995
		ZA	8406667	ZA	8406668		
END OF ANNEX							



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